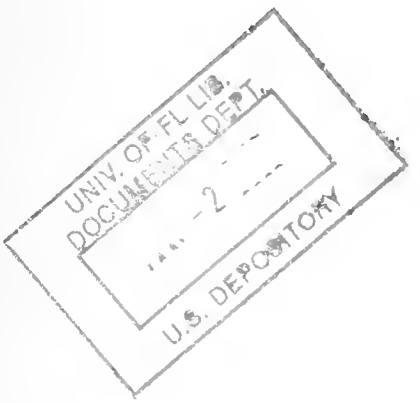
UNITED STATES DEPARTMENT OF AGRICULTURE
Consumer and Marketing Service
Cotton Division
Washington, D. C. 20250

COTTON FIBER AND PROCESSING TEST RESULTS

CROP OF 1966



CT (1966) 9

December 16, 1966

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1966

Discussion of Test Results

Cotton Division laboratories of the Consumer and Marketing Service report that average values for all medium staple samples tested to date show a slight increase in fiber length, while length uniformity remains at last season's level. These fibers are a little coarser and stronger than a year ago. Shirley Analyzer nonlint content and picker and card waste are a little higher than last year. Yarns from these samples are slightly stronger, with approximately the same appearance grades, but higher imperfection counts than last season, (Table 1).

Short staple samples tested to date from the Southwestern Area show fibers with about the same length and uniformity, but they are much finer and a little weaker than a year ago. Both Shirley Analyzer nonlint content and picker and card waste average higher than last season. Yarns from these samples have approximately the same strength, a little lower appearance index, and considerably higher imperfection count than last year.

Southeastern Area medium staple samples show about the same length with the same uniformity, but coarser and stronger than last year. Shirley Analyzer nonlint content remains on the same level, while picker and card waste is slightly higher. Yarns from these samples are a little stronger with about the same appearance index, but higher imperfection count than a year ago.

South Central Area medium staple samples tested for this season show longer fibers, with the same uniformity and zero-gage strength as last season. Fiber strength by the 1/8-inch gage test is higher than last season. Micronaire reading is slightly lower than a year ago. Both Shirley Analyzer nonlint content and picker and card waste average slightly above last year's levels. Yarns from these samples are stronger with lower appearance grades and higher imperfection counts than last season.

No additional tests were made on medium staple samples from the Southwestern Area for this reporting period. Values reported in the last bulletin remain unchanged. Compared to the same period last year, they show about the same length, length uniformity and strength, but are coarser. Shirley Analyzer nonlint content and picker and card waste are higher than a year ago. Yarns from these samples show about the same strength, with higher appearance grades and lower imperfection counts than last season.

Western Area medium staple samples tested to date show slightly shorter, coarser and much stronger fibers with the same length uniformity as last season. Shirley Analyzer nonlint content and picker and card waste are higher than a year ago. Yarns from these samples are not quite as strong as last year, but have higher appearance indices and lower imperfection counts.

Western Area long staple samples are longer, with about the same uniformity, fineness and zero-gage strength as last season. Strength by the 1/8-inch gage test is higher than a year ago. Shirley Analyzer nonlint content is a little higher than last year, while picker and card waste is considerably higher. Yarns from these samples show the same strength as a year ago, while appearance grades are lower and imperfections counts much higher.

American Egyptian samples tested this season are longer, with about the same uniformity, fineness and zero-gage strength as last season. Strength by the 1/8-inch gage test is higher than a year ago. Shirley Analyzer nonlint content and picker and card waste are higher than last year. Yarns from these samples are stronger, with about the same appearance grades and imperfection counts as last season.

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This is the ninth of a series of reports on the fiber and processing test results on the 1966 cotton crop. These reports are issued twice each month during the harvesting season and are summarized in a comprehensive report at the end of the season. This 1966 group of reports will give data on the same subject as AIB 309, "Annual Cotton Quality Survey, Summary of Results of Fiber and Processing Tests from Selected Production Areas, Crop of 1965," dated April 1966.

Recent modernization of testing equipment has resulted in slight changes in test levels for some items. To compare previous years' results to those reported for the 1966 crop, the following adjustments should be made:

1. Yarn imperfections for previous years x 0.6 = 1966 levels.

2. Spinning potential yarn no. for previous years x 1.1 = 1966 levels.

An explanation of these changes is contained in the first report of this series, CT (1966) 1, dated August 26, 1966.

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Cotton Division
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Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 9, 1966 1/

Staple group, area, and crop year	Lots tested	Fiber test results: Fibrograph 2.5% span	Fibrograph 50/2.5 unif	Micronaire fineness	Fiber strength: Zero Gage Mpsi	Fiber strength: 1/8" Gage G/tex	Shirley Analyzer nonlint	Processing test results: Picker & card waste	Yarn quality: Skein strength	Yarn quality: Appearance	Yarn quality: Imperfections 2/
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.
Short staple:									22s Carded Yarn		
Southwest:											
1965	91	.96	46	4.2	79	20.4	3.1	5.2	92	106	23
1966	95	.95	45	3.9	78	20.0	3.8	6.5	91	104	35
Medium staple:											
Southeast:											
1965	162	1.06	46	4.4	78	20.7	2.7	5.2	102	107	16
1966	151	1.07	46	4.7	82	22.2	2.7	5.4	104	106	21
South Central:											
1965	268	1.07	46	4.6	82	21.3	2.8	5.3	103	111	16
1966	203	1.09	46	4.5	82	22.3	3.0	5.5	107	109	21
Southwest:											
1965	48	1.06	46	4.4	84	22.0	2.4	4.9	106	109	18
1966	40	1.07	46	4.7	84	22.0	3.0	5.7	107	118	14
West:											
1965	65	1.09	46	4.3	87	24.6	2.5	4.7	122	107	22
1966	53	1.08	46	4.4	93	25.1	3.3	5.5	120	120	17
U.S. Average:											
1965	543	1.07	46	4.5	81	21.6	2.7	5.1	105	109	17
1966	447	1.08	46	4.6	83	22.6	2.9	5.5	107	110	20
Long staple:											
West:											
1965	28	1.17	46	3.5	89	25.2	2.6	6.0	132	96	25
1966	24	1.19	45	3.6	89	25.8	3.0	6.7	132	87	38
Extra long staple:		Array							50s Combed Yarn		
West:											
1965	17	1.40	30	3.8	97	33.1	3.0	6.9	69	125	2
1966	11	1.42	29	3.7	98	34.1	3.4	7.5	72	124	1
Significant difference 3/		0.02	2	0.2	2	0.5	0.5	0.5	4 (22s) 2 (50s)	5	2

1/ Based on a limited number of samples of modal quality.
2/ Adjusted to 1966 level (Imperfection No. x 0.6) to reflect cleaning action of card crusher rolls.
3/ Minimum difference considered to be significant for comparison in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966

Area	Southwestern			
State	Cent. Texas:	Northwest Texas		
Production area	Lohn	Abernathy		Ackerly
Predominant variety	W. Strmpruf:	Lankart 57		:W. Strmpruf
Percentage of variety at gin	75	80	80	95
Triweekly sampling	Second	First	Second	First
RAW COTTON QUALITY				
Grade .....designation	MLtSp	MLtSp	MLtSp	MLtSp
Staple length .....inches	29/32	1-inch	15/16	15/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	.92	1.01	.94	.95
Uniformity ratio (50/2.5).percent	45	44	44	46
Fiber fineness and maturity:				
Micronaire .....reading	4.1	3.3	3.4	4.0
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	83	71	74	80
Zero gauge strength .....grams/tex	41.2	35.2	36.7	39.7
⅛-inch gauge strength ..grams/tex	18.3	18.2	20.7	17.7
⅛-inch gauge elongation...percent	7.0	9.0	8.3	6.4
Shirley Analyzer:				
Visible waste .....percent	2.4	1.7	1.7	2.6
Total visible & invisible..percent	3.5	3.0	2.6	4.2
Color of raw cotton:				
Reflectance .....R_d	73.9	73.4	74.1	74.1
Yellowness .....+b	9.5	10.2	9.8	9.8
Code .....number	353	303	303	303
PROCESSING RESULTS:				
Picker and card waste.....percent	7.2	5.2	5.6	6.0
Yarn skein strength:				
8s(73.8 tex) .....pounds	290	301	310	304
22s(26.8 tex) .....pounds	88	88	93	94
Average break factor.....	2128	2172	2263	2250
Yarn skein elongation:				
8s(73.8 tex) .....percent	6.8	9.7	8.5	7.2
22s(26.8 tex) .....percent	5.9	7.9	7.4	6.3
Yarn appearance:				
8s(73.8 tex) .....grade	B+	C+	B	B
22s(26.8 tex) .....grade	B	C	C+	B
Average yarn appearance.....index	115	95	105	110
Yarn imperfections: 1/				
8s(73.8 tex) .....number	46	78	57	32
22s(26.8 tex) .....number	23	48	38	16
Spinning potential....2/. Yarn number	-	49	-	43

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Continued on page 6

Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southwestern			
State	Northwest Texas			
Production area	Afton	Anton		Baileyboro
Predominant variety	Lankart 57			Rilcot 90
Percentage of variety at gin	95	100	100	80
Triweekly sampling	First	Second	Third	First
RAW COTTON QUALITY				
Grade .....designation	MLtSp	MSp	MSp	SLMLtSp
Staple length .....inches	15/16	15/16	15/16	15/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	.99	.97	.97	.91
Uniformity ratio (50/2.5).percent	45	42	44	47
Fiber fineness and maturity:				
Micronaire .....reading	4.4	2.7	2.7	3.8
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	72	72	69	89
Zero gauge strength .....grams/tex	35.7	35.7	34.2	44.1
⅛-inch gauge strength ..grams/tex	19.0	17.6	19.0	22.9
⅛-inch gauge elongation...percent	9.2	9.4	8.8	7.8
Shirley Analyzer:				
Visible waste .....percent	1.3	2.2	2.2	3.7
Total visible & invisible..percent	2.1	4.0	3.6	5.2
Color of raw cotton:				
Reflectance .....Rd	72.9	69.2	70.0	70.6
Yellowness .....+b	9.8	11.4	11.1	9.8
Code .....number	353	355	355	403
PROCESSING RESULTS:				
Picker and card waste.....percent	4.4	8.0	7.6	6.9
Yarn skein strength:				
8s (73.8 tex) .....pounds	298	277	337	359
22s (26.8 tex) .....pounds	89	83	102	108
Average break factor.....	2171	2021	2470	2624
Yarn skein elongation:				
8s (73.8 tex) .....percent	8.5	9.2	7.9	8.0
22s (26.8 tex) .....percent	7.2	7.8	7.3	7.1
Yarn appearance:				
8s (73.8 tex) .....grade	B+	C	B+	B+
22s (26.8 tex) .....grade	B+	D	B	B+
Average yarn appearance.....index	120	80	115	120
Yarn imperfections: 1/				
8s (73.8 tex) .....number	39	149	55	46
22s (26.8 tex) .....number	30	93	37	26
Spinning potential....2/. Yarn number	44	-	-	49

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Southwestern					
Northwest Texas					
Baileyboro	Ballinger	Colorado City		Dimmitt	
Rilcot 90	Lankart 57	Western Stormproof		Gregg 35	
80	85	97	97	90	90
Second	Third	First	Second	Second	Third
SLMSp	SLMLtSp	SLMLtSp	SLMLtSp	SLMSp	SLMSp
15/16	29/32	29/32	15/16	15/16	31/32
.91	.93	.94	.95	.92	.97
46	44	44	45	46	45
3.2	4.6	3.8	4.0	3.4	3.3
80	73	81	79	80	82
39.7	36.2	40.2	39.2	39.7	40.7
23.0	18.0	19.8	19.2	22.3	23.0
7.4	8.2	6.2	6.2	7.4	7.4
3.3	2.2	2.5	2.8	3.6	4.5
4.6	4.2	4.4	4.4	4.7	5.8
70.1	70.2	72.2	72.8	65.1	68.9
10.7	9.4	9.5	9.7	12.0	10.9
354	403	353	353	406	405
8.0	7.2	6.6	6.8	8.4	9.0
329	261	286	296	338	351
100	79	90	91	105	109
2416	1913	2134	2185	2507	2603
8.0	8.0	6.7	7.0	8.1	8.3
6.9	6.5	5.9	6.3	7.2	7.0
B	B+	B	B+	B+	B+
B	B	C+	B	B+	B
110	115	105	115	120	115
54	41	42	33	57	56
37	24	21	19	42	40
-	-	40	-	-	-

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Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southwestern			
State	Northwest Texas			
Production area	Dougherty		Friona	
Predominant variety	Lankart 57		Paymaster 101A	
Percentage of variety at gin	85	85	70	70
Triweekly sampling	First	Second	First	Second
RAW COTTON QUALITY				
Grade .....designation	MLtSp	MLtSp	SLMTg	SLMTg
Staple length .....inches	1-inch	31/32	29/32	15/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.01	.99	.92	.94
Uniformity ratio (50/2.5).percent	41	43	44	45
Fiber fineness and maturity:				
Micronaire .....reading	3.3	3.2	2.5	2.7
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	71	73	79	73
Zero gauge strength .....grams/tex	35.2	36.2	39.2	36.2
⅛-inch gauge strength ..grams/tex	19.5	19.7	19.6	20.9
⅛-inch gauge elongation...percent	8.3	8.8	7.6	8.2
Shirley Analyzer:				
Visible waste .....percent	2.2	1.6	5.6	5.5
Total visible & invisible..percent	2.8	2.8	7.5	7.0
Color of raw cotton:				
Reflectance .....Rd	75.0	75.9	60.0	63.5
Yellowness .....+b	9.2	9.2	13.8	12.7
Code .....number	303	302	408	407
PROCESSING RESULTS:				
Picker and card waste.....percent	5.1	5.6	9.8	10.2
Yarn skein strength:				
8s (73.8 tex) .....pounds	307	306	312	317
22s (26.8 tex) .....pounds	91	91	93	96
Average break factor.....	2229	2225	2271	2324
Yarn skein elongation:				
8s (73.8 tex) .....percent	9.5	9.3	8.3	8.8
22s (26.8 tex) .....percent	7.9	7.5	7.1	7.3
Yarn appearance:				
8s (73.8 tex) .....grade	C+	B	C	C+
22s (26.8 tex) .....grade	C	C+	BG	D+
Average yarn appearance.....index	95	105	75	90
Yarn imperfections: 1/				
8s (73.8 tex) .....number	77	65	130	87
22s (26.8 tex) .....number	48	51	89	66
Spinning potential....2/.Yarn number	48	-	41	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Southwestern					
Northwest Texas					
Friona	Hereford		Idalou		Kress
Paymastr 101A	Mixed - Mainly		Lankart 611		Paymastr 101A
70	Paymaster 202	100		100	90
Third	First	Second	Second	Third	Second
LMSp	SLMLtSp	SLMSp	MLtSp	MSp	MSp
15/16	15/16	1-1/32	31/32	1-inch	31/32
.95	.91	1.01	.97	.98	.97
45	48	45	43	43	44
3.0	3.7	2.8	2.9	2.7	2.7
83	90	80	75	72	80
41.2	44.6	39.7	37.2	35.7	39.7
21.9	22.0	22.3	19.0	19.6	20.1
7.8	7.7	7.5	9.0	9.8	8.1
5.2	3.2	3.4	2.2	2.5	1.9
6.9	5.1	4.3	4.0	3.4	2.9
65.8	70.8	66.8	73.2	70.9	68.3
11.6	10.0	12.0	9.5	10.8	11.7
406	404	356	353	354	356
8.4	7.0	7.0	7.0	6.6	7.8
349	347	351	296	298	332
108	109	108	87	90	99
2584	2587	2592	2141	2182	2417
7.8	7.6	8.3	9.5	9.8	8.7
6.7	6.7	7.3	8.5	8.3	7.5
B	B+	C+	C+	C+	C
B	B	C+	D+	D+	D
110	115	100	90	90	80
65	53	83	101	85	122
38	30	52	59	60	68
-	48	-	-	-	-

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Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southwestern			
State	Northwest Texas			
Production area	Kress			
Predominant variety	Paymstr101A:	Paymaster 111		
Percentage of variety at gin	90	80	80	80
Triweekly sampling	Third	First	Second	Third
RAW COTTON QUALITY				
Grade .....designation	MSp	MSp	MSp	MSp
Staple length .....inches	31/32	1-1/16	1-1/16	1-inch
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	.99	1.06	1.03	1.03
Uniformity ratio (50/2.5).percent	44	45	44	44
Fiber fineness and maturity:				
Micronaire .....reading	3.0	3.1	3.0	3.1
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	81	79	80	80
Zero gauge strength .....grams/tex	40.2	39.2	39.7	39.7
⅛-inch gauge strength ..grams/tex	22.0	21.4	20.4	22.0
⅛-inch gauge elongation...percent	8.1	8.0	7.7	7.8
Shirley Analyzer:				
Visible waste .....percent	1.8	1.5	1.8	1.8
Total visible & invisible..percent	2.9	2.8	3.1	2.8
Color of raw cotton:				
Reflectance .....Rd	69.1	71.2	72.0	70.4
Yellowness .....+b	11.4	10.9	10.6	11.0
Code .....number	355	304	304	355
PROCESSING RESULTS:				
Picker and card waste.....percent	6.8	5.6	6.4	5.8
Yarn skein strength:				
8s (73.8 tex) .....pounds	339	345	342	351
22s (26.8 tex) .....pounds	103	105	104	106
Average break factor.....	2489	2535	2512	2570
Yarn skein elongation:				
8s (73.8 tex) .....percent	8.6	8.9	9.0	9.2
22s (26.8 tex) .....percent	7.7	7.5	7.8	7.7
Yarn appearance:				
8s (73.8 tex) .....grade	C	C	C+	B
22s (26.8 tex) .....grade	D	D	D+	D+
Average yarn appearance.....index	80	80	90	95
Yarn imperfections: 1/				
8s (73.8 tex) .....number	86	94	108	71
22s (26.8 tex) .....number	63	48	72	54
Spinning potential....2/ Yarn number	-	58	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Southwestern						
Northwest Texas						
Lubbock			Maple	Morton	New Home	
Sweatt 75			Gregg 35		Lankart 57	
75	75	75	70	80	90	90
First	Second	Third	Second	Second	First	Second
MLtSp 31/32	MLtSp 1-inch	MSp 31/32	MSp 29/32	MTg 15/16	MLtSp 15/16	MLtSp 15/16
1.00	1.00	1.03	.91	.89	1.00	.97
44	45	41	47	46	42	45
3.4	2.9	2.8	3.3	3.2	3.6	3.6
73	75	72	85	82	74	70
36.2	37.2	35.7	42.2	40.7	36.7	34.7
19.0	19.4	19.3	22.0	21.2	19.3	17.1
8.1	8.8	9.3	7.5	7.6	8.5	9.6
1.9	2.3	2.8	1.6	2.0	2.3	1.6
2.8	3.8	4.1	3.2	3.7	3.5	3.3
75.9	75.0	69.1	71.6	67.0	74.1	74.3
8.8	9.1	11.4	10.6	12.2	9.1	9.0
302	352	355	354	356	353	352
5.1	6.8	7.0	7.6	7.2	6.0	6.2
312	320	310	332	320	294	288
94	95	93	100	100	87	87
2282	2325	2263	2428	2380	2133	2109
9.3	9.5	9.5	7.6	7.8	8.9	9.1
7.9	8.1	8.4	6.7	6.9	7.7	8.0
B	C+	C+	B+	B	C+	B
C	D+	D+	B	C+	C	C
100	90	90	115	105	95	100
63	105	90	49	91	86	73
35	55	60	29	59	45	42
51	-	-	-	-	47	-

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Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southwestern			
State	Northwest Texas			
Production area	O'Brien	Ralls		
Predominant variety	No. Star	Lankart 57		Paymstr111
Percentage of variety at gin	80	95	95	100
Triweekly sampling	First	First	Second	First
RAW COTTON QUALITY				
Grade .....designation	MLtSp	MLtSp	SLMLtSp	MLtSp
Staple length .....inches	29/32	15/16	1-inch	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	.94	.97	.98	1.07
Uniformity ratio (50/2.5).percent	46	43	45	46
Fiber fineness and maturity:				
Micronaire .....reading	4.7	3.8	3.5	3.4
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	81	71	70	79
Zero gauge strength .....grams/tex	40.2	35.2	34.7	39.2
⅛-inch gauge strength ..grams/tex	19.5	18.1	18.9	20.9
⅛-inch gauge elongation...percent	5.8	8.6	9.5	8.0
Shirley Analyzer:				
Visible waste .....percent	1.5	1.7	1.5	2.3
Total visible & invisible..percent	2.8	3.1	3.3	4.0
Color of raw cotton:				
Reflectance .....Rd	70.9	73.2	73.1	74.8
Yellowness .....+b	10.2	9.6	9.6	9.2
Code .....number	354	353	353	353
PROCESSING RESULTS:				
Picker and card waste.....percent	6.1	5.8	7.2	6.5
Yarn skein strength:				
8s (73.8 tex) .....pounds	268	284	287	342
22s (26.8 tex) .....pounds	81	84	86	104
Average break factor.....	1963	2060	2094	2512
Yarn skein elongation:				
8s (73.8 tex) .....percent	6.3	9.3	9.3	9.0
22s (26.8 tex) .....percent	5.2	7.4	8.6	7.7
Yarn appearance:				
8s (73.8 tex) .....grade	B+	B	C+	C+
22s (26.8 tex) .....grade	B+	C+	C+	C
Average yarn appearance.....index	120	105	100	95
Yarn imperfections: 1/				
8s (73.8 tex) .....number	39	62	91	86
22s (26.8 tex) .....number	18	36	53	51
Spinning potential....2/. Yarn number	36	44	-	58

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 2.--Cotton, American upland short staple: Quality characteristics by production areas, crop of 1966--Continued

Southwestern					
Northwest Texas					Oklahoma
Ropesville	Seagraves	Stamford	Vernon	Whitharrel	Burns Flat
Lockett 4789	Paymaster 202	Lankart 57	Lockett 4789	Rilcot 90	Lankart 57
95	100	98	100	80	80
First	First	Second	First	First	First
MLtSp	MLtSp	MLtSp	SLMLtSp	MLtSp	MLtSp
1-1/32	15/16	15/16	1-1/32	15/16	31/32
1.03	.93	.95	1.04	.92	.98
45	46	45	44	46	45
3.8	3.4	4.6	4.3	4.2	4.2
78	78	74	84	81	74
38.7	38.7	36.7	41.7	40.2	36.7
21.2	21.1	19.2	21.6	21.6	19.5
7.2	7.4	8.4	6.3	7.8	9.0
1.9	2.0	2.1	3.5	1.2	1.6
3.1	3.8	4.0	5.4	2.4	3.5
75.7	74.5	74.1	71.4	72.8	74.0
9.1	9.0	9.1	9.2	9.5	9.4
302	352	353	403	353	353
5.0	5.9	6.0	6.8	4.9	5.4
346	331	306	320	338	301
103	101	91	98	100	92
2517	2435	2225	2358	2452	2216
9.0	7.7	8.3	7.5	8.3	8.5
7.5	6.6	6.7	6.8	7.0	7.2
B	B	B+	B+	B+	B+
C+	C+	B	B	B+	B
105	105	115	115	120	115
48	58	32	41	48	46
30	32	17	27	24	29
57	48	-	49	48	49

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966

Area	Southeastern			
State	Alabama			
Production area	Albertville	Belle Mina	Centre	
Predominant variety	Carolina Queen		Dix.King II	
Percentage of variety at gin	100	100	100	100
Triweekly sampling	Second	Third	Third	Third
RAW COTTON QUALITY				
Grade .....designation	MLtSp	SLMLtSp	SLMLtSp	SLMLtSp
Staple length .....inches	1-1/16	1-1/32	1-1/32	1-1/32
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.10	1.07	1.09	1.06
Uniformity ratio (50/2.5).percent	45	44	43	44
Fiber fineness and maturity:				
Micronaire .....reading	4.7	4.5	5.1	4.3
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	82	78	81	80
Zero gauge strength .....grams/tex	40.4	38.5	39.9	39.6
⅛-inch gauge strength ..grams/tex	21.7	20.9	21.0	21.0
⅛-inch gauge elongation...percent	6.0	6.7	6.2	6.0
Shirley Analyzer:				
Visible waste .....percent	1.1	1.2	1.3	2.3
Total visible & invisible..percent	1.6	1.7	2.2	3.3
Color of raw cotton:				
Reflectance .....Rd	75.0	70.0	71.2	73.8
Yellowness .....+b	8.6	9.5	9.9	8.4
Code .....number	352	403	403	402
PROCESSING RESULTS:				
Picker and card waste.....percent	4.8	4.6	5.0	7.0
Yarn skein strength:				
22 s (26.8 tex) .....pounds	105	100	94	98
50 s (11.8 tex) .....pounds	37	35	31	34
Average break factor.....	2080	1975	1809	1928
Yarn skein elongation:				
22 s (26.8 tex) .....percent	6.7	6.5	5.9	6.0
50 s (11.8 tex) .....percent	5.0	4.8	4.5	4.8
Yarn appearance:				
22 s (26.8 tex) .....grade	C+	C	B	C
50 s (11.8 tex) .....grade	C	D	C+	D+
Average yarn appearance.....index	95	80	105	85
Yarn imperfections: 1/				
22 s (26.8 tex) .....number	33	35	22	40
50 s (11.8 tex) .....number	23	21	16	34
Spinning potential....2/. Yarn number	-	-	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Southeastern Alabama					
Cullman		Decatur	Harpersville	Huntsville	
Mixed - Mainly Dixie King		Rex Sm L 95	DPL Sm L 70	Mxd-Mnly Empire	Dixie King II 100
First	Second	Third	Third	Third	Third
SLM 1-1/32	MLtSp 1-1/32	SLMLtSp 1-1/16	MLtSp 1-1/16	SLM 1-1/16	SLM 1-1/32
1.07	1.09	1.07	1.09	1.08	1.05
44	43	44	43	44	44
4.5	4.7	4.2	4.5	4.6	4.5
80	81	72	80	77	81
39.7	39.9	35.8	39.7	38.1	40.3
21.2	20.8	19.9	21.1	21.0	20.7
5.6	6.2	6.6	6.8	5.7	5.7
1.3	0.9	1.4	1.8	1.2	1.2
2.6	1.7	2.4	2.7	1.6	2.4
73.5	74.8	71.0	73.0	74.5	73.0
8.4	8.7	8.9	8.2	8.2	8.5
402	352	403	402	402	402
4.6	5.4	5.2	5.6	5.4	5.6
98	95	94	102	105	94
33	32	32	36	36	31
1903	1845	1834	2022	2055	1809
6.0	5.9	6.1	6.6	6.2	5.9
4.5	4.4	4.9	5.1	4.8	4.5
B	B	B	B+	C+	C
C+	C+	C+	C+	C	D+
105	105	105	110	95	85
22	23	17	17	19	27
15	16	14	12	14	24
61	-	-	-	-	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southeastern			
State	Alabama			
Production area	Montgomery	Piedmont	Russellville	Tuscumbia
Predominant variety	Auburn 56	Dix.King II	Mxd-Mnly	Stnvl 213
Percentage of variety at gin	100	100	Stnvl 7A	75
Triweekly sampling	Third	Third	Third	Third
RAW COTTON QUALITY				
Grade .....designation	SLMLtSp	SLMLtSp	SLMLtSp	SLMLtSp
Staple length .....inches	1-1/32	1-1/16	1-1/32	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.04	1.07	1.07	1.09
Uniformity ratio (50/2.5).percent	44	45	44	44
Fiber fineness and maturity:				
Micronaire .....reading	4.2	4.3	4.9	4.3
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	81	77	77	80
Zero gauge strength .....grams/tex	40.0	38.2	37.9	39.4
⅛-inch gauge strength ..grams/tex	20.6	21.6	19.2	21.3
⅛-inch gauge elongation...percent	5.7	5.9	6.1	7.1
Shirley Analyzer:				
Visible waste .....percent	1.9	2.3	2.1	2.1
Total visible & invisible..percent	3.8	3.6	3.4	3.5
Color of raw cotton:				
Reflectance .....Rd	71.0	72.5	68.8	70.5
Yellowness .....+b	9.9	8.3	8.7	9.1
Code .....number	403	402	453	453
PROCESSING RESULTS:				
Picker and card waste.....percent	5.6	6.6	6.2	5.4
Yarn skein strength:				
22s (26.8 tex) .....pounds	93	101	89	108
50s (11.8 tex) .....pounds	30	35	29	38
Average break factor.....	1773	1986	1704	2138
Yarn skein elongation:				
22s (26.8 tex) .....percent	5.5	6.5	5.6	6.8
50s (11.8 tex) .....percent	4.3	4.8	4.0	5.4
Yarn appearance:				
22s (26.8 tex) .....grade	C+	C	C+	C
50s (11.8 tex) .....grade	C	C	C	C
Average yarn appearance.....index	95	90	95	90
Yarn imperfections: 1/				
22s (26.8 tex) .....number	20	29	23	23
50s (11.8 tex) .....number	18	23	17	17
Spinning potential....2/ Yarn number	-	-	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Southeastern Georgia					
Haralson		Newnan		Winder	
Empire		Dixie King		Hybee	
100	100	100	100	100	100
First	Second	Second	Third	Second	Third
LMLtSp 1-1/16	LM 1-1/16	MLtSp 1-1/16	LMLtSp 1-1/32	SLMLtSp 1-1/32	LMLtSp 1-1/32
1.10	1.08	1.06	1.06	1.06	1.06
45	43	45	43	45	45
3.8	3.9	4.2	4.2	4.4	4.8
81	80	81	79	76	78
40.2	39.7	40.3	39.2	37.5	38.8
22.0	20.6	20.3	19.1	20.7	20.0
5.7	6.0	5.8	5.9	6.3	6.8
4.0	2.3	1.4	2.1	1.6	2.3
5.4	3.4	2.6	3.6	2.7	3.3
72.7	70.0	71.7	76.5	70.0	68.3
8.2	8.2	9.1	8.9	8.7	8.8
402	452	403	503	453	503
7.1	5.6	5.0	5.8	6.4	5.4
106	104	99	89	95	92
38	38	33	30	31	31
2116	2094	1914	1729	1820	1787
6.3	6.3	6.1	5.8	6.3	6.2
5.1	4.7	4.6	4.4	4.6	4.5
C	C+	C	C	C+	C
C	C	D+	D	C+	D+
90	95	85	80	100	85
30	28	17	26	26	22
21	18	18	22	20	22
70	-	-	-	-	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southeastern			
State	North Carolina			
Production area	Dunn	Laurinburg	Lumberton	
Predominant variety	Car. Queen	McNair 1032	Mixed - Mainly Coker 100	
Percentage of variety at gin	80	100		
Triweekly sampling	Third	Third	Second	Third
RAW COTTON QUALITY				
Grade .....designation	SLM	SLM	MLtSp	LMLtSp
Staple length .....inches	1-1/16	1-1/16	1-1/16	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.09	1.06	1.06	1.09
Uniformity ratio (50/2.5).percent	44	49	47	44
Fiber fineness and maturity:				
Micronaire .....reading	4.7	4.8	4.3	3.8
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	78	82	83	74
Zero gauge strength .....grams/tex	38.8	40.4	40.9	36.8
⅛-inch gauge strength ..grams/tex	20.3	22.9	21.3	20.8
⅛-inch gauge elongation...percent	6.0	6.8	6.4	6.8
Shirley Analyzer:				
Visible waste .....percent	2.1	1.8	1.4	5.0
Total visible & invisible..percent	2.7	2.8	2.3	6.1
Color of raw cotton:				
Reflectance .....Rd	73.8	73.0	75.2	69.7
Yellowness .....+b	8.2	8.6	9.4	9.0
Code .....number	402	402	303	453
PROCESSING RESULTS:				
Picker and card waste.....percent	5.4	5.6	4.6	7.8
Yarn skein strength:				
22s (26.8 tex) .....pounds	100	113	105	108
50s (11.8 tex) .....pounds	35	39	37	39
Average break factor.....	1975	2218	2080	2163
Yarn skein elongation:				
22s (26.8 tex) .....percent	6.3	6.5	6.4	7.1
50s (11.8 tex) .....percent	5.2	5.0	4.8	5.6
Yarn appearance:				
22s (26.8 tex) .....grade	B	B	C+	C+
50s (11.8 tex) .....grade	C+	C+	C+	C
Average yarn appearance.....index	105	105	100	95
Yarn imperfections: 1/				
22s (26.8 tex) .....number	23	22	16	36
50s (11.8 tex) .....number	16	17	13	26
Spinning potential....2/. Yarn number	-	-	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Southeastern					
North Carolina				South Carolina	
Seaboard	Shelby	Wadesboro	Scotland Neck	Heath Springs	Pendleton
Mxd-Mnly	Coker 413	Car. Queen	Mxd-Mnly	Coker 413	Car. Queen
McNair 1032	100	80	Coker 100	100	100
Third	Third	Third	First	Third	Third
SLM	MLtSp	SLM	SLM	SLM	SLM
1-1/16	1-3/32	1-1/16	1-1/16	1-1/16	1-1/16
1.07	1.13	1.05	1.07	1.13	1.10
46	46	47	47	44	44
4.3	4.2	4.6	4.5	3.8	4.2
80	89	82	83	86	84
39.5	44.2	40.6	41.1	42.4	41.8
21.6	24.0	22.0	22.5	24.5	23.1
7.2	5.5	6.6	7.2	5.9	6.0
1.9	1.5	1.8	2.3	2.9	1.6
2.9	2.9	2.3	3.4	3.9	2.3
75.2	74.0	74.5	73.0	74.3	74.2
8.6	9.0	8.2	8.1	7.1	8.2
352	353	402	402	451	402
5.2	5.4	5.4	5.5	6.8	5.8
110	127	109	110	134	109
40	47	38	40	50	39
2210	2572	2149	2210	2724	2174
6.8	6.5	6.5	7.0	6.8	6.0
5.2	5.3	5.0	5.2	5.5	5.0
C+	B	C+	C	B	C+
C	C+	C+	D+	B	C
95	105	100	85	110	95
22	19	21	29	18	23
19	13	15	19	14	15
-	-	-	66	-	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Southeastern			So. Central
State	S. Carolina	Virginia		Arkansas
Production area	York	Emporia		Clarendon
Predominant variety	Coker 413	Mixed - Mainly Carolina Queen		DPL Sm L
Percentage of variety at gin	100			90
Triweekly sampling	Third	Second	Third	First
RAW COTTON QUALITY				
Grade .....designation	SLM	SLM	M	SLM
Staple length .....inches	1-3/32	1-3/32	1-3/32	1-3/32
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.12	1.10	1.10	1.09
Uniformity ratio (50/2.5).percent	45	45	45	47
Fiber fineness and maturity:				
Micronaire .....reading	4.1	4.3	4.3	4.7
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	88	79	79	80
Zero gauge strength .....grams/tex	43.7	38.9	39.0	39.7
⅛-inch gauge strength ..grams/tex	24.0	21.1	22.5	21.9
⅛-inch gauge elongation...percent	5.2	6.4	6.5	7.4
Shirley Analyzer:				
Visible waste .....percent	1.6	2.0	0.9	2.4
Total visible & invisible..percent	2.4	3.0	1.7	3.0
Color of raw cotton:				
Reflectance .....Rd	72.2	74.5	75.7	74.5
Yellowness .....+b	7.8	8.2	8.8	7.7
Code .....number	452	402	352	401
PROCESSING RESULTS:				
Picker and card waste.....percent	4.6	5.6	5.0	5.6
Yarn skein strength:				
22s (26.8 tex) .....pounds	119	109	109	107
50s (11.8 tex) .....pounds	43	41	39	38
Average break factor.....	2384	2224	2174	2127
Yarn skein elongation:				
22s (26.8 tex) .....percent	6.3	6.7	6.5	6.7
50s (11.8 tex) .....percent	5.1	5.3	5.2	5.1
Yarn appearance:				
22s (26.8 tex) .....grade	C+	C+	B	B+
50s (11.8 tex) .....grade	C+	D+	D+	C+
Average yarn appearance.....index	100	90	95	110
Yarn imperfections: 1/				
22s (26.8 tex) .....number	17	25	12	16
50s (11.8 tex) .....number	14	16	12	10
Spinning potential....2/ Yarn number	-	-	-	63

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

South Central					
Arkansas					
Hughes	Joiner	Lake City	Leachville	Little Rock	
Stoneville 213			Stnvl 7A	Mixed - Mainly	
100	90	85	100	Stoneville 7A	
Second	Third	Second	Third	First	Second
SLM	LM	MLtSp	SLM	SLM	SLM
1-3/32	1-3/32	1-3/32	1-3/32	1-3/32	1-3/32
1.10	1.11	1.10	1.10	1.14	1.14
46	45	46	45	46	46
4.7	4.1	3.8	3.5	4.5	4.2
83	82	81	83	81	81
41.2	40.7	40.2	41.2	40.2	40.2
21.9	22.1	21.1	21.5	21.4	22.2
6.9	6.6	7.2	6.5	6.1	7.4
1.4	4.3	2.5	2.8	2.6	2.0
2.9	6.0	4.0	4.7	3.3	3.5
74.4	71.1	75.5	74.1	74.1	73.8
8.1	7.8	8.6	8.0	7.8	8.1
402	452	352	402	402	402
5.6	8.6	6.6	7.6	5.7	6.2
107	107	106	109	109	111
38	38	38	40	39	40
2127	2127	2116	2199	2174	2221
6.3	6.2	7.2	6.7	6.4	6.7
4.8	4.9	5.6	5.4	5.0	5.2
B+	B	B	B+	A	B+
C+	C	C	D+	C+	C+
110	100	100	100	115	110
15	35	30	22	13	16
10	30	19	16	8	10
-	-	-	-	68	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	South Central			
State	Arkansas			
Production area	Lonoke	Parkin	Pine Bluff	Searcy
Predominant variety	Delfos 9169	Stnvl 7A	Mxd-Mnly	DPL Sm L
Percentage of variety at gin	70	100	DPL 45	90
Triweekly sampling	First	First	Second	First
RAW COTTON QUALITY				
Grade .....designation	SLM	LM	SLM	M
Staple length .....inches	1-1/8	1-1/8	1-3/32	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.16	1.14	1.09	1.05
Uniformity ratio (50/2.5).percent	46	45	47	46
Fiber fineness and maturity:				
Micronaire .....reading	4.5	4.5	4.6	4.1
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	81	84	82	77
Zero gauge strength .....grams/tex	40.2	41.7	40.7	38.2
⅛-inch gauge strength ..grams/tex	22.1	22.0	22.2	20.5
⅛-inch gauge elongation...percent	6.2	5.8	7.5	7.8
Shirley Analyzer:				
Visible waste .....percent	1.9	4.3	2.4	1.4
Total visible & invisible..percent	2.7	5.5	4.1	2.4
Color of raw cotton:				
Reflectance .....Rd	74.9	71.9	73.7	77.2
Yellowness .....+b	7.3	8.1	7.7	8.1
Code .....number	401	452	452	351
PROCESSING RESULTS:				
Picker and card waste.....percent	5.6	8.1	5.8	4.9
Yarn skein strength:				
22s (26.8 tex) .....pounds	110	109	110	109
50s (11.8 tex) .....pounds	40	39	39	38
Average break factor.....	2210	2174	2185	2149
Yarn skein elongation:				
22s (26.8 tex) .....percent	6.6	5.9	6.6	7.2
50s (11.8 tex) .....percent	5.2	4.7	5.2	5.6
Yarn appearance:				
22s (26.8 tex) .....grade	B+	B+	B+	A
50s (11.8 tex) .....grade	C	C	C+	C+
Average yarn appearance.....index	105	105	110	115
Yarn imperfections: 1/				
22s (26.8 tex) .....number	16	18	16	10
50s (11.8 tex) .....number	11	16	13	9
Spinning potential...2/..Yarn number	67	69	-	68

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

South Central					
Arkansas			Louisiana		
Vincent : Rex : Third	Weona : Mxd-Mnly : DPL Sm L : Second	Wynne : DPL Sm L : 100 : Second	Alexandria : Stnvl 213 : 80 : Third	Bossier City : DPL 45 : 100 : Second	Mira : DPL Sm L : 85 : Second
SLMLtSp 1-1/16	LM 1-1/8	SLM 1-3/32	SLM 1-1/16	SLM 1-1/16	MltSp 1-1/16
1.07	1.12	1.12	1.03	1.10	1.07
46	45	45	40	44	40
3.9	4.2	4.5	3.8	4.1	3.8
81	81	76	82	85	83
40.2	40.2	37.7	40.7	42.2	41.2
21.5	21.5	19.8	21.8	22.5	21.9
7.3	7.3	8.2	6.8	6.2	8.1
2.4	3.4	1.4	1.6	1.8	1.7
4.0	4.9	2.5	3.4	3.3	3.2
69.0	72.0	74.9	75.1	75.4	72.3
9.0	7.9	7.8	7.9	7.6	9.2
453	452	402	402	401	403
6.8	7.6	5.0	6.0	5.6	6.2
100	111	115	98	114	108
36	40	41	33	42	40
2000	2221	2290	1903	2304	2188
5.9	6.7	7.4	6.1	6.5	7.1
4.6	5.5	5.7	4.7	5.1	5.5
B+	B+	B+	B	B+	B+
C	C+	C+	D+	C+	C
105	110	110	95	110	105
19	24	13	31	15	22
14	16	8	26	8	18
-	-	-	-	-	-

Continued on page 24

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	South Central			
State	Mississippi			
Production area	Bruce		Clarksdale	
Predominant variety	Stoneville 213		Stoneville 7A	
Percentage of variety at gin	80	99	100	
Triweekly sampling	Third	Third	Second	Third
RAW COTTON QUALITY				
Grade .....designation	SLM	SLMLtSp	SLM	SLM
Staple length .....inches	1-1/16	1-1/16	1-1/16	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.06	1.10	1.10	1.10
Uniformity ratio (50/2.5).percent	43	43	43	45
Fiber fineness and maturity:				
Micronaire .....reading	4.0	3.8	5.1	4.6
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	79	80	92	86
Zero gauge strength .....grams/tex	39.2	39.4	45.4	42.7
⅛-inch gauge strength ..grams/tex	21.2	21.4	22.4	23.1
⅛-inch gauge elongation...percent	6.6	7.1	5.4	5.1
Shirley Analyzer:				
Visible waste .....percent	1.7	2.7	2.4	2.1
Total visible & invisible..percent	2.9	3.7	2.8	3.3
Color of raw cotton:				
Reflectance .....Rd	75.5	73.5	75.8	75.5
Yellowness .....+b	8.3	8.7	7.6	6.9
Code .....number	352	402	401	401
PROCESSING RESULTS:				
Picker and card waste.....percent	4.8	5.6	6.8	6.2
Yarn skein strength:				
22s (26.8 tex) .....pounds	104	111	104	108
50s (11.8 tex) .....pounds	36	40	35	37
Average break factor.....	2044	2221	2019	2113
Yarn skein elongation:				
22s (26.8 tex) .....percent	6.5	7.3	5.6	6.1
50s (11.8 tex) .....percent	5.1	5.9	4.1	4.7
Yarn appearance:				
22s (26.8 tex) .....grade	C	D+	B	C+
50s (11.8 tex) .....grade	D+	D	C	D+
Average yarn appearance.....index	85	75	100	90
Yarn imperfections: 1/				
22s (26.8 tex) .....number	28	54	24	20
50s (11.8 tex) .....number	23	38	16	16
Spinning potential..2/...Yarn number	-	-	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

South Central					
Mississippi					
Clarksdale		Greenville	Greenwood		Hollandale
DPL Smooth Leaf		Stoneville 213	DPL Sm L		DPL 45
100		100	100	100	100
Second	Third	Fourth	Third	Third	Third
SLM	SLM	LM	SLM	SLM	LM
1-3/32	1-3/32	1-1/16	1-3/32	1-3/32	1-3/32
1.11	1.14	1.09	1.09	1.11	1.11
45	46	43	45	43	42
4.2	4.3	3.5	4.4	4.1	3.1
82	82	79	84	82	80
40.5	40.4	39.3	41.7	40.4	39.7
24.2	23.6	21.6	22.8	22.6	24.7
7.8	7.8	6.7	6.1	7.5	6.9
1.8	2.0	3.9	2.4	2.2	4.0
3.0	3.2	5.4	3.8	3.1	5.5
76.8	76.0	74.0	75.5	78.0	74.8
7.5	8.0	8.0	7.0	7.1	7.3
401	352	402	401	401	401
4.8	5.8	7.2	5.6	5.8	8.4
112	115	109	103	115	118
40	42	38	35	40	44
2232	2315	2149	2008	2265	2398
7.2	7.5	6.8	6.4	7.2	7.3
5.7	5.9	5.4	5.1	5.6	6.1
C+	B	C	C+	C+	BG
C	C	D	D+	C	BG
95	100	80	90	95	60
29	20	41	23	21	76
19	15	26	22	16	57
-	-	68	-	-	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	South Central			
State	Mississippi			
Production area	Hollandale		Indianola	
Predominant variety	DPL Sm L	Stnvl 213	DPL Sm L	Dix.King II
Percentage of variety at gin	100	90	100	100
Triweekly sampling	Third	Fourth	Fourth	Fourth
RAW COTTON QUALITY				
Grade .....designation	SLM	SLMLtSp	SLM	LM
Staple length .....inches	1-3/32	1-1/16	1-1/16	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.13	1.10	1.08	1.05
Uniformity ratio (50/2.5).percent	44	44	42	43
Fiber fineness and maturity:				
Micronaire .....reading	4.1	3.6	3.8	3.9
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	78	77	84	87
Zero gauge strength .....grams/tex	38.4	38.3	41.4	43.1
⅛-inch gauge strength ..grams/tex	22.4	22.2	22.4	21.7
⅛-inch gauge elongation...percent	7.3	6.5	8.2	5.4
Shirley Analyzer:				
Visible waste .....percent	1.8	2.2	2.7	3.3
Total visible & invisible..percent	3.2	3.6	3.8	4.4
Color of raw cotton:				
Reflectance .....R_d	78.0	73.2	76.0	72.7
Yellowness .....+b	7.3	8.2	7.2	7.4
Code .....number	351	402	401	451
PROCESSING RESULTS:				
Picker and card waste.....percent	5.2	5.7	6.2	6.8
Yarn skein strength:				
22 s (26.8 tex) .....pounds	117	107	111	102
50 s (11.8 tex) .....pounds	42	37	40	33
Average break factor.....	2337	2102	2221	1947
Yarn skein elongation:				
22s (26.8 tex) .....percent	7.2	6.5	7.0	5.9
50s (11.8 tex) .....percent	5.8	5.2	5.7	4.2
Yarn appearance:				
22s (26.8 tex) .....grade	C	D+	C+	C
50s (11.8 tex) .....grade	C	BG	C	C
Average yarn appearance.....index	90	70	95	90
Yarn imperfections: 1/				
22s (26.8 tex) .....number	21	47	24	38
50s (11.8 tex) .....number	18	30	19	30
Spinning potential...2/..Yarn number	-	68	70	58

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

South Central						
Mississippi						
Indianola	Iuka	Jackson	Kosciusko	Lyon	Rosedale	
Stnvl 213	Dix.King II	DPL Sm L	Stoneville 213		DPL Smooth Leaf	
100	75	100	90	70	100	
Fourth	Third	Third	Third	Third	Second	Third
SLM 1-1/16	SLMLtSp 1-1/16	SLM 1-1/16	SLMLtSp 1-1/32	SLM 1-3/32	M 1-1/16	SLMLtSp 1-1/16
1.08	1.09	1.06	1.05	1.11	1.10	1.10
43	45	46	45	46	42	40
3.8	4.4	4.4	4.5	4.4	4.3	3.7
79	79	79	76	83	80	79
39.2	39.1	39.2	37.6	41.0	39.6	39.1
22.0	21.0	21.6	21.1	23.5	21.7	22.6
6.1	6.3	6.0	7.3	6.5	7.8	8.0
2.0	1.8	2.1	1.9	3.0	1.0	1.3
3.3	3.0	3.2	2.9	3.9	2.2	2.6
77.0	71.7	76.5	73.0	75.5	78.0	72.3
7.6	8.8	7.4	8.0	7.4	7.6	8.7
351	403	401	452	401	351	402
5.1	5.4	5.4	5.8	6.0	5.2	7.2
102	101	101	99	111	102	90
35	36	34	33	40	35	31
1997	2011	1961	1914	2221	1997	1765
6.1	6.4	6.1	7.0	6.8	7.2	6.4
4.8	5.0	4.8	5.0	5.3	5.6	5.1
D+	C	C+	C+	C+	C	BG
D	C	C	C+	D+	D	BG
75	90	95	100	90	80	60
37	31	19	23	25	37	137
25	23	15	17	22	25	123
57	-	-	-	-	-	-

Continued on page 28

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	South Central			
State	Mississippi			
Production area	Sardis	Sunflower	Tchula	
Predominant variety	Stnvl 7A	Stnvl 213	DPL Smooth Leaf	
Percentage of variety at gin	100	100	100	
Triweekly sampling	Third	Third	Second	Third
RAW COTTON QUALITY				
Grade .....designation	LM	SLM	SLM	SLMLtSp
Staple length .....inches	1-1/16	1-3/32	1-3/32	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.13	1.08	1.09	1.10
Uniformity ratio (50/2.5).percent	46	46	44	44
Fiber fineness and maturity:				
Micronaire .....reading	4.8	4.9	3.8	3.2
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	81	78	78	76
Zero gauge strength .....grams/tex	40.2	38.8	38.6	37.6
⅛-inch gauge strength ..grams/tex	23.6	22.4	22.7	21.8
⅛-inch gauge elongation...percent	6.9	5.9	7.4	7.4
Shirley Analyzer:				
Visible waste .....percent	4.3	2.2	2.0	3.6
Total visible & invisible..percent	5.2	3.2	3.2	5.0
Color of raw cotton:				
Reflectance .....Rd	74.5	74.3	76.7	73.7
Yellowness .....+b	7.6	7.2	7.9	8.4
Code .....number	401	451	351	402
PROCESSING RESULTS:				
Picker and card waste.....percent	7.2	6.2	6.0	6.6
Yarn skein strength:				
22s (26.8 tex) .....pounds	109	101	110	111
50s (11.8 tex) .....pounds	38	35	39	40
Average break factor.....	2149	1986	2185	2221
Yarn skein elongation:				
22s (26.8 tex) .....percent	6.7	6.4	7.2	7.0
50s (11.8 tex) .....percent	5.0	5.1	5.5	5.7
Yarn appearance:				
22s (26.8 tex) .....grade	C+	B	C+	C
50s (11.8 tex) .....grade	C+	C+	D+	D
Average yarn appearance.....index	100	105	90	80
Yarn imperfections: 1/				
22s (26.8 tex) .....number	23	19	34	51
50s (11.8 tex) .....number	17	16	28	35
Spinning potential...2/..Yarn number	-	-	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

South Central					
Mississippi				Missouri	
Tunica	Tylertown	Water Valley	Campbell	Gideon	Steele
Coker 413	Car. Queen	DPL Sm L	Stnvl 213	Stnvl 7A	Rex Sm L
100	75	95	80	80	65
Third	Third	Third	Second	Second	Second
SLM	MLtSp	SLM	SLM	SLM	SLM
1-5/32	1-1/16	1-1/16	1-1/16	1-1/16	1-3/32
1.15	1.05	1.08	1.08	1.09	1.11
43	46	42	45	44	44
3.9	4.6	3.5	4.2	4.0	3.7
90	77	71	79	85	85
44.5	38.2	35.2	39.2	42.2	42.2
25.3	19.7	22.5	21.9	23.0	22.3
5.5	6.0	7.7	7.4	6.6	7.0
2.5	1.1	1.4	1.8	2.5	2.2
3.7	2.1	2.4	3.2	4.2	3.8
76.5	73.5	77.0	75.0	74.0	73.4
7.7	8.5	7.6	8.0	8.2	8.0
401	402	351	402	402	402
6.6	5.4	5.0	6.6	7.0	6.0
121	96	113	107	105	116
44	32	41	38	38	43
2431	1856	2268	2127	2105	2351
6.8	6.1	7.6	6.8	6.5	7.0
5.3	4.7	6.0	5.2	5.2	5.7
C	B	D+	B+	B+	B
D+	C+	D	C+	C	C
85	105	75	110	105	100
29	20	32	15	25	20
25	17	28	11	18	17
-	-	-	-	-	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	South Central			
State	Tennessee			
Production area	Covington	Fayetteville	Jackson	Munford
Predominant variety	DPL Sm L	Empire WR61	Dix.King II	Mxd-Mnly
Percentage of variety at gin	95	70	90	Auburn M
Triweekly sampling	Third	Third	Third	Third
RAW COTTON QUALITY				
Grade .....designation	SLMLtSp	SLM	SLM	SLMLtSp
Staple length .....inches	1-1/16	1-1/16	1-1/16	1-1/16
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.08	1.05	1.08	1.08
Uniformity ratio (50/2.5).percent	44	43	44	44
Fiber fineness and maturity:				
Micronaire .....reading	3.9	3.6	4.1	3.7
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	77	82	81	77
Zero gauge strength .....grams/tex	38.0	40.8	40.3	38.0
⅛-inch gauge strength ..grams/tex	22.1	20.6	20.2	20.9
⅛-inch gauge elongation...percent	7.7	6.7	6.3	6.2
Shirley Analyzer:				
Visible waste .....percent	1.5	1.5	1.9	2.2
Total visible & invisible..percent	2.8	2.6	2.7	3.4
Color of raw cotton:				
Reflectance .....R_d	71.7	77.3	74.0	71.0
Yellowness .....+b	9.3	7.8	8.0	9.2
Code .....number	403	351	402	403
PROCESSING RESULTS:				
Picker and card waste.....percent	6.2	4.8	5.2	6.0
Yarn skein strength:				
22s (26.8 tex) .....pounds	103	106	102	103
50s (11.8 tex) .....pounds	36	37	35	37
Average break factor.....	2033	2091	1997	2058
Yarn skein elongation:				
22s (26.8 tex) .....percent	7.0	7.1	6.6	6.6
50s (11.8 tex) .....percent	5.5	5.4	4.9	5.0
Yarn appearance:				
22s (26.8 tex) .....grade	D+	C+	C	D+
50s (11.8 tex) .....grade	D	C	C	D
Average yarn appearance.....index	75	95	90	75
Yarn imperfections: 1/				
22s (26.8 tex) .....number	41	24	28	48
50s (11.8 tex) .....number	30	22	21	37
Spinning potential..2/...Yarn number	-	-	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

South Central					Western
Tennessee					Arizona
Ridgely	Ripley	Savannah	Tiptonville		Casa Grande
Stoneville 213	Mxd-Mnly	Dixie King II	DPL Sm L		DPL Sm L
90	Rex Sm L	90	100		100
Second	Third	Third	Third	Third	Second
MLtSp 1-1/16	SLMLtSp 1-1/16	MLtSp 1-1/16	SLMLtSp 1-1/32	MLtSp 1-1/16	SLM 1-1/16
1.11	1.11	1.07	1.06	1.12	1.07
43	42	45	42	43	44
4.6	3.8	3.8	4.1	4.1	4.8
79	76	80	80	78	87
39.2	37.4	39.8	39.5	38.8	43.2
21.5	21.0	21.0	20.7	22.4	22.6
6.2	6.9	6.4	6.5	8.0	7.0
2.1	1.6	1.6	1.1	1.3	2.1
3.1	2.9	2.5	1.8	2.5	4.0
74.0	74.0	74.5	72.5	73.5	73.5
9.3	9.0	8.6	9.0	9.0	8.2
353	353	352	403	403	402
5.4	5.8	5.2	5.2	5.2	5.6
99	105	115	103	114	103
35	38	41	37	41	36
1964	2105	2290	2058	2279	2033
6.5	6.9	6.9	6.6	7.2	6.1
5.0	5.8	5.4	5.0	6.0	4.6
D+	D+	C	D+	C	B+
D+	D	D	D	D	C+
80	75	80	75	80	110
36	47	38	38	31	11
27	29	25	30	25	8
-	-	-	-	-	-

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Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Western			
State	Arizona		California	
Production area	Peoria	Queen Creek	Brawley	Delano
Predominant variety	DPL Smooth Leaf			Acala 4-42
Percentage of variety at gin	100	100	100	100
Triweekly sampling	Second	Second	First	Third
RAW COTTON QUALITY				
Grade .....designation	SLM	SLM	SLM	SLM
Staple length .....inches	1-1/16	1-1/16	1-1/16	1-3/32
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.05	1.06	1.04	1.07
Uniformity ratio (50/2.5).percent	42	40	39	47
Fiber fineness and maturity:				
Micronaire .....reading	4.8	4.2	4.6	4.5
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	88	85	92	97
Zero gauge strength .....grams/tex	43.6	42.2	45.6	48.1
⅛-inch gauge strength ..grams/tex	22.6	22.6	22.6	25.0
⅛-inch gauge elongation...percent	6.3	7.3	6.2	6.1
Shirley Analyzer:				
Visible waste .....percent	2.1	2.0	1.6	1.8
Total visible & invisible..percent	2.7	2.6	2.0	3.5
Color of raw cotton:				
Reflectance .....Rd	73.0	73.4	74.1	73.7
Yellowness .....+b	8.4	8.3	8.8	8.4
Code .....number	402	402	352	402
PROCESSING RESULTS:				
Picker and card waste.....percent	6.4	5.2	5.0	6.2
Yarn skein strength:				
22s (26.8 tex) .....pounds	94	110	101	123
50s (11.8 tex) .....pounds	30	39	34	45
Average break factor.....	1784	2185	1961	2478
Yarn skein elongation:				
22s (26.8 tex) .....percent	5.2	5.9	5.6	5.8
50s (11.8 tex) .....percent	3.9	4.7	4.2	4.6
Yarn appearance:				
22s (26.8 tex) .....grade	B	B+	B+	B+
50s (11.8 tex) .....grade	C	C+	C	C+
Average yarn appearance.....index	100	110	105	110
Yarn imperfections: 1/				
22s (26.8 tex) .....number	19	18	17	14
50s (11.8 tex) .....number	14	13	13	9
Spinning potential...2/..Yarn number	-	-	50	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 3.--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1966--Continued

Western					
California					
Five Points	Hanford	Huron	Kerman	Stratford	Terra Bella
Acala 4-42					
100	100	100	100	100	100
Second	Third	Second	Second	Third	Third
SLM	SLM	SLM	SLMLtSp	M	SLM
1-3/32	1-3/32	1-1/16	1-1/16	1-3/32	1-3/32
1.09	1.08	1.08	1.08	1.09	1.08
46	47	45	43	44	46
4.2	4.6	3.5	3.4	4.6	4.3
95	100	94	86	100	98
47.1	49.6	46.6	42.7	49.6	48.6
26.2	26.0	25.7	23.0	26.4	25.0
5.2	5.5	6.2	5.8	5.8	5.7
2.3	1.8	2.4	2.2	1.7	2.8
3.5	3.5	3.8	3.7	2.0	4.6
73.8	73.6	71.9	71.0	75.3	73.1
7.6	8.1	8.2	9.0	8.5	8.1
451	402	452	403	352	402
6.2	5.2	6.4	7.4	5.4	5.8
129	127	126	111	133	128
48	47	48	42	50	48
2619	2572	2586	2271	2713	2608
6.3	5.9	6.0	5.7	6.0	6.1
4.9	4.6	4.9	4.5	4.8	4.9
B+	B+	B	B+	A	B+
C	C	D+	D+	B	C+
105	105	95	100	120	110
16	18	24	31	15	16
12	12	20	20	9	11
-	-	-	-	-	-

Table 4.--Cotton, American upland long staple: Quality characteristics by production areas, crop of 1966

Area	Western		
State	Arizona	New Mexico	
Production area	Duncan	Animas	Las Cruces
Predominant variety	A 1517 D	A 1517 V	A 1517 D
Percentage of variety at gin	98	80	75
Triweekly sampling	Third	Third	Third
RAW COTTON QUALITY			
Grade .....designation	SLM	M	M
Staple length .....inches	1-5/32	1-5/32	1-1/8
Fiber length (Digital Fibrograph):			
2.5% span length.....inches	1.22	1.21	1.18
Uniformity ratio (50/2.5).percent	43	44	42
Fiber fineness and maturity:			
Micronaire .....reading	3.1	3.1	2.9
Fiber strength and elongation:			
Zero gauge strength .....1,000 psi	86	85	86
Zero gauge strength .....grams/tex	42.5	42.0	42.5
⅛-inch gauge strength ..grams/tex	26.6	27.8	27.1
⅛-inch gauge elongation...percent	6.8	6.6	6.2
Shirley Analyzer:			
Visible waste .....percent	3.8	1.6	1.3
Total visible & invisible..percent	5.5	2.8	2.7
Color of raw cotton:			
Reflectance .....R_d	76.0	80.3	77.5
Yellowness .....+b	8.2	7.8	8.4
Code .....number	352	251	302
PROCESSING RESULTS:			
Picker and card waste.....percent	8.5	6.0	6.5
Comber waste.....percent	17.7	16.8	21.1
* Yarn skein strength: Carded & Combed			
22s (26.8 tex) .....pounds	136 (157)	140 (160)	129 (154)
50s (11.8 tex) .....pounds	52 (59)	55 (62)	50 (60)
Average break factor.....	2796 (3202)	2915 (3310)	2669 (3194)
Yarn skein elongation:			
22s (26.8 tex) .....percent	6.8 (7.3)	6.9 (7.4)	7.0 (7.3)
50s (11.8 tex) .....percent	5.5 (6.3)	5.8 (6.4)	5.3 (6.0)
Yarn appearance:			
22s (26.8 tex) .....grade	C (C+)	D+ (C+)	EG (C)
50s (11.8 tex) .....grade	D (C+)	D (C+)	EG (D)
Average yarn appearance.....index	80 (100)	75 (100)	60 (80)
Yarn imperfections: 1/			
22s (26.8 tex) .....number	53 (17)	45 (14)	64 (22)
50s (11.8 tex) .....number	36 (13)	30 (13)	47 (19)
Spinning potential....2/ Yarn number	- -	- -	- -

* Combed yarn data in parentheses

1/ Level for previous years x 0.6 = 1966 level.

2/ Level for previous years x 1.1 = 1966 level.

Continued on page 35

Table 4.--Cotton, American upland long staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Western			
State	New Mexico		West Texas	
Production area	Lovington	Tularosa	Canutillo	Ft.Stockton
Predominant variety	A 1517 BR2	A 1517 C	A 1517 D	A 1517 C
Percentage of variety at gin	71	76	90	90
Triweekly sampling	Second	Third	Third	Third
RAW COTTON QUALITY				
Grade .....designation	MLtSp	M	M	M
Staple length .....inches	1-5/32	1-5/32	1-1/8	1-5/32
Fiber length (Digital Fibrograph):				
2.5% span length.....inches	1.22	1.20	1.14	1.18
Uniformity ratio (50/2.5).percent	45	44	41	44
Fiber fineness and maturity:				
Micronaire .....reading	3.5	3.3	2.7	3.5
Fiber strength and elongation:				
Zero gauge strength .....1,000 psi	89	83	85	82
Zero gauge strength .....grams/tex	44.3	41.0	42.2	40.7
⅛-inch gauge strength ..grams/tex	26.3	27.0	25.8	26.7
⅛-inch gauge elongation...percent	5.7	7.0	6.7	7.0
Shirley Analyzer:				
Visible waste .....percent	2.6	2.0	1.8	1.3
Total visible & invisible..percent	4.1	3.3	3.2	2.9
Color of raw cotton:				
Reflectance .....R_d	74.2	78.2	78.2	78.0
Yellowness .....+b	9.3	8.0	7.9	8.4
Code .....number	353	301	301	301
PROCESSING RESULTS:				
Picker and card waste.....percent	7.3	6.8	6.4	6.3
Comber waste.....percent	18.0	18.4	21.9	18.2
* Yarn skein strength:Carded & Combed				
22s (26.8 tex) .....pounds	135 (156)	133 (155)	134 (157)	128 (149)
50s (11.8 tex) .....pounds	52 (59)	51 (58)	50 (60)	47 (56)
Average break factor.....	2785 (3191)	2738 (3155)	2724 (3227)	2583 (3039)
Yarn skein elongation:				
22s (26.8 tex) .....percent	7.0 (7.2)	7.1 (7.5)	6.7 (7.0)	7.0 (7.7)
50s (11.8 tex) .....percent	6.0 (6.2)	5.8 (6.4)	5.3 (6.0)	5.7 (6.5)
Yarn appearance:				
22s (26.8 tex) .....grade	BG (C+)	D (C+)	D+ (C+)	D+ (B)
50s (11.8 tex) .....grade	BG (D+)	D (C+)	D (C+)	D (B)
Average yarn appearance.....index	60 (90)	70 (100)	75 (100)	75 (110)
Yarn imperfections: 1/				
22s (26.8 tex) .....number	69 (24)	47 (17)	30 (10)	35 (10)
50s (11.8 tex) .....number	48 (18)	33 (15)	22 (9)	25 (10)
Spinning potential...2/..Yarn number	- -	- -	- -	- -
* Combed yarn data in parentheses				

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 5.--Cotton, American upland extra long staple: Quality characteristics by production areas, crop of 1966

Area	Western
State	West Texas
Production area	Pecos
Predominant variety	Del Cerro
Percentage of variety at gin	100
Triweekly sampling	Third
RAW COTTON QUALITY	
Grade .....designation	SLM
Staple length .....inches	1-5/16
Fiber length (Array):	
Upper quartile length.....inches	1.50
Coef. of variation.....percent	31
Fiber fineness and maturity:	
Micronaire .....reading	3.2
Fiber strength and elongation:	
Zero gauge strength .....1,000 psi	98
Zero gauge strength .....grams/tex	48.5
⅛-inch gauge strength ..grams/tex	32.6
⅛-inch gauge elongation...percent	5.7
Shirley Analyzer:	
Visible waste .....percent	3.1
Total visible & invisible..percent	4.4
Color of raw cotton:	
Reflectance .....R_d	76.0
Yellowness .....+b	8.0
Code .....number	352
PROCESSING RESULTS:	
Picker and card waste.....percent	8.0
Comber waste.....percent	22.2
Yarn skein strength: Combed yarns	
50s (11.8 tex) .....pounds	72
80s (7.4 tex) .....pounds	39
Average break factor.....	3360
Yarn skein elongation:	
50s (11.8 tex) .....percent	5.9
80s (7.4 tex) .....percent	5.0
Yarn appearance:	
50s (11.8 tex) .....grade	B
80s (7.4 tex) .....grade	D+
Average yarn appearance.....index	95
Yarn imperfections: 1/	
50s (11.8 tex) .....number	14
80s (7.4 tex) .....number	13
Spinning potential....2/ Yarn number	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 6.--Cotton, American Egyptian extra long staple: Quality characteristics by production areas, crop of 1966

Area	Western		
State	Arizona		
Production area	Safford	Stanfield	
Predominant variety	Pima S-2		
Percentage of variety at gin	84	100	100
Triweekly sampling	Second	First	Second
RAW COTTON QUALITY			
Grade .....designation	3	4	4
Staple length .....inches	1-3/8	1-3/8	1-3/8
Fiber length (Array):			
Upper quartile length.....inches	1.44	1.42	1.48
Coef. of variation.....percent	27	31	29
Fiber fineness and maturity:			
Micronaire .....reading	3.8	3.9	3.9
Fiber strength and elongation:			
Zero gauge strength .....1,000 psi	95	95	100
Zero gauge strength .....grams/tex	47.0	47.1	49.7
⅛-inch gauge strength ..grams/tex	33.4	35.0	34.7
⅛-inch gauge elongation...percent	7.3	6.1	6.5
Shirley Analyzer:			
Visible waste .....percent	1.4	3.1	3.5
Total visible & invisible..percent	2.6	4.6	4.6
Color of raw cotton:			
Reflectance .....Rd	70.5	68.3	66.0
Yellowness .....+b	10.2	9.8	9.8
Code .....number	404	454	504
PROCESSING RESULTS:			
Picker and card waste.....percent	6.4	8.1	8.6
Comber waste.....percent	17.7	19.1	19.4
Yarn skein strength: Combed yarns			
50s (11.8 tex) .....pounds	71	73	74
80s (7.4 tex) .....pounds	39	41	40
Average break factor.....	3335	3465	3450
Yarn skein elongation:			
50s (11.8 tex) .....percent	6.2	5.6	5.6
80s (7.4 tex) .....percent	5.4	5.0	4.6
Yarn appearance:			
50s (11.8 tex) .....grade	B+	B+	B+
80s (7.4 tex) .....grade	C+	B	B
Average yarn appearance.....index	110	115	115
Yarn imperfections: 1/			
50s (11.8 tex) .....number	2	2	2
80s (7.4 tex) .....number	1	2	1
Spinning potential....2/ Yarn number	-	-	-

Continued on page 38

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

Table 6.--Cotton, American Egyptian extra long staple: Quality characteristics by production areas, crop of 1966--Continued

Area	Western	
State	New Mexico	West Texas
Production area	Las Cruces	El Paso
Predominant variety	Pima S-2	Pima S-1
Percentage of variety at gin	76	70
Triweekly sampling	Second	Second
RAW COTTON QUALITY		
Grade .....designation	2	2
Staple length .....inches	1-3/8	1-3/8
Fiber length (Array):		
Upper quartile length.....inches	1.36	1.40
Coef. of variation.....percent	30	29
Fiber fineness and maturity:		
Micronaire .....reading	3.5	3.5
Fiber strength and elongation:		
Zero gauge strength .....1,000 psi	94	101
Zero gauge strength .....grams/tex	46.7	49.9
⅛-inch gauge strength ..grams/tex	33.2	33.0
⅛-inch gauge elongation...percent	7.7	7.1
Shirley Analyzer:		
Visible waste .....percent	1.5	1.3
Total visible & invisible..percent	2.7	2.4
Color of raw cotton:		
Reflectance .....Rd	70.5	70.5
Yellowness .....+b	10.7	10.7
Code .....number	354	354
PROCESSING RESULTS:		
Picker and card waste.....percent	7.2	6.6
Comber waste.....percent	18.5	19.6
Yarn skein strength: Combed yarns		
50s (11.8 tex) .....pounds	69	72
80s (7.4 tex) .....pounds	38	40
Average break factor.....	3245	3400
Yarn skein elongation:		
50s (11.8 tex) .....percent	6.0	6.3
80s (7.4 tex) .....percent	5.4	5.0
Yarn appearance:		
50s (11.8 tex) .....grade	B+	B+
80s (7.4 tex) .....grade	C+	C+
Average yarn appearance.....index	110	110
Yarn imperfections: 1/		
50s (11.8 tex) .....number	2	2
80s (7.4 tex) .....number	1	2
Spinning potential....2/ Yarn number	-	-

1/ Level for previous years x 0.6 = 1966 level.
2/ Level for previous years x 1.1 = 1966 level.

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